JUN 24 2003 15:53 FR 71

71 TO 12689#449215054# P.01

Morgan, Lewis & Bocklus LLP 1111 Pennsylvania Avenua, N.W. Washington, DC 20004 1el. 202.739.3000 Fax: 202.739.3001

09/923,327

Send To

Name: Examiner Stephanie Zitomer, Ph.D.

FAX Number: 703-746-3148

Firm: U.S. Patent Office - Group Art Unit 1834

Telephone Number: 703-308-3985

From:

Namo: Robert Smyth, Ph.D. Molest Laufter

Floor: 4

Operator Sending:

Telephone Number: 202,739,6139

Time Sent:

Date Sent: June 24, 2003

Morgan Lewis

Number of Pages (including cover page): 20

Note: THE INFORMATION CONTAINED IN THIS FAX MESSAGE IS INTENDED ONLY FOR THE PERSONAL AND CONFIDENTIAL HISE OF THE RECIPIENTIS) NAMED ABOVE, THIS MESSAGE MAY BE AN ATTORNEY-CLIENT COMMUNICATION AND AS SUCH IS PRIVILEGED AND CONFIDENTIAL. IF THE READER OF THIS MESSAGE IS NOT THE INTENDED RECIPIENT OR AN AGENT RESPONSIBLE FOR DELIVERING IT TO THE INTENDED RECIPIENT, YOU ARE HERBY NOTIFIED THAT YOU HAVE RECEIVED THIS DOCUMENT IN ERROR AND THAT ANY REVIEW, DISSEMINATION, DISTRIBUTION, OR COPYING OF THIS MESSAGE IS STRICTLY PROHIBITED. IF YOU HAVE RECEIVED THIS COMMUNICATION IN FROM, PLEASE NOTIFY US IMMEDIATELY BY THE REPHONE, AND RETURN THE ORIGINAL MESSAGE TO US BY MAIL. THANK YOU.

FAX MESSAGE

U.S. Patent Application 09/923,327 Inventors: Patricia Murphy et al. Filed: August 8, 2001 Title: Determining Common Functional Alleles in a Population and Uses therefor Group Art Unit: 1634 Examiner: Stephanie Zitomer, Ph.D. Attorney Docket: 044921-5054-02

Copy of pending claims 1-90 attached

Received from < 71 > at 6/24/03 4:02:32 PM [Eastern Daylight Time]

WHAT IS CLAIMED IS:

- A method of determining a functional allele profile of a gene in a population, comprising.
- (a) identifying the nucleotide sequence of a gene of interest out of genomic DNA from each of a population of individuals identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (b) identifying the haplotype sequence of at least one individual identified as having a family history which indicates inheritance of only functional alleles of a gene of interest:
- (c) if any hotorozygous sequence is identified in step (a), then subtracting the haplotype sequence identified in (b) from said heterozygous sequence to identify the companion haplotype to the haplotype identified in step (b);
- (d) determining the frequency of occurrence of the haplotypes determined in a steps (b) and (c); and
- (e) rank ordering the frequency of occurrence of each haplotype, wherehy the identity of the alleles containing each haplotype and the determination of their relative frequencies constitutes the functional allele profile of the gene of interest in the population.
- 2. The method of staim I wherein a haplotype is identified in step (b) by determining the sequence of a homozygous individual.
- 3. The method of claim 2 wherein the sequence of the homozygous individual is identified in step (a).
- 4. The method of claim 2 wherein the sequence of the homozygous individual is obtained from an individual not among the individuals identified in step (a).
- 5. The method of claim 1 wherein a haplotype is identified in step (b) by sequencing analysis of a cDNA sample.

- 6. The method of claim 5 wherein the cDNA sample is obtained from an individual whose sequence is identified in step (a).
- 7. The method of claim 5 wherein the cDNA sample is obtained from an individual not among the population in step (a).
- 8. The method of claim 1 wherein at least one family history in step (a) is determined by pedigree analysis.
- 9. The method of claim 1 wherein at least one family history in step (a) is determined by questionnaire.
- 10. The method of claim 1 wherein at least one genomic sequence of step/(a)// . contains all exons of the gene.
- 11. The method of claim I wherein at least one genomic sequence of step (a) contains intronic sequences.
- 12. The method of claim 10 or 14 wherein at least one genomic sequence of individual amplified exons is identified.
- 13. A method of determining the consensus functional sequence of a gene in a population, comprising:
- (a) identifying the sequence of a gene of interest out of genomic DNA from each of a population of individuals identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (b) identifying the haplotype sequence of at least one individual identified as having a family history which indicates inheritance of only functional alleles of a gene of interest;

- (c) if any heterozygous sequence is identified in step (a), then subtracting the haplotype sequence identified in (b) from said heterozygous sequence to identify the companion haplotype to the haplotype identified in step (b);
- (d) determining the frequency of occurrence of the haplotypes determined in steps (b) and (c); and
- (e) rank ordering the frequency of occurrence of each haplotype, whereby the most frequently occurring sequence is the consensus functional sequence of the gene in the population.
- 14. The method of claim 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, or 13 wherein the population in step (a) contains at least five individuals.
 - 15. A method of determining a functional allele profile comprising, in this order
- (a) determining the nucleotide sequence of at least one allele containing the nucleotide sequence of an isolated coding region of a gene of interest from a single individual identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (b), determining the genomic sequence of the same gene of interest inclusive of any naturally occurring polymorphisms from a subpepulation of at least five nurelated individuals other than the individuals in step (a), identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (c) subtracting the sequence in (a) from the sequence identified in (b) for all individuals tested, such that the sequence remaining after subtraction determines the companion allele to the allele in (a);
- (d) if the sequence determined in (a) is not present among the sequences determined in (b), determining an alternative allele having a haplotype for comparison and substruction in the individuals in (b) by identifying at least one individual among the population in (b) homozygous for the allele having said haplotype;
- (c) determining the frequency of occurrence of the allele determined in (a); (c) and (d) among the samples in (b); and

- (f) rank ordering the frequency of occurrence of the alleles to obtain a "functional allele profile" for the gene of interest.
- 16. A method of determining the consensus functional sequence of a gene in a population, comprising in this order:
- (a) determining the nucleotide sequence of at least one allele containing the nucleotide sequence of an isolated coding region of a gene of interest from a single individual identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (b) determining the genomic sequence of the same gene of interest inclusive of any naturally occurring polymorphisms from a subpopulation of at least five unrelated individuals; other than the individual in step (a), identified as having a family history which indicates inheritance of functional alleles of the gene of interest;
- (c) subtracting the sequence in (a) from the sequence identified in (b) for all individuals tested, such that the sequence remaining after subtraction determines the companion allele to the allele in (a);
- (d) if the sequence determined in (a) is not present among the sequences determined in (b), determining an alternative allele having a haplotype for comparison and substruction in the individuals in (b) by identifying at least one individual among the population in (b) homozygous for the allele having said haplotype:
- (e) determining the frequency of occurrence of the allele determined in (a), (e) and (d) among the samples in (b); and
- (f) rank ordering the frequency of occurrence of the alleles, whereby the most frequently occurring sequence is the consensus functional sequence of the gene in the population.

- 17. The method of claim 1, 13, 15, or 16 wherein the gene of interest has at least 5 naturally occurring polymorphisms of frequencies of at least 10% in the population.
- 18. A method for determining a new haplotype of a gene of interest where at least one wild-type nucleotide sequence of said gene of interest is known comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene of interest.
- (b) determining a nucleotide sequence of said gene, or a fragment thereof, in at least one allele of said individual.
- (c) comparing each nucleotide sequence from said individual to that of each wildtype nucleotide sequence, wherein the presence of at least one nucleotide sequence
 different from each known wild-type nucleotide sequence indicates the presence of said*
 new haplotype and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new haplotype is determined.

- 19_ The method according to claim 18 wherein at least-five individuals are selected.
 - 20. The method according to claim 18 wherein said individual is a human.
- 21. The method according to claim 18 wherein said new haplotype encodes a protein having at least one amino acid difference in its deduced amino acid sequence from a protein encoded by said at least one wild-type nucleotide sequence.
- 22. An isolated protein encoded by said new haplotype determinable by the method of claim 21.
- 23. An isolated DNA comprising the nucleotide sequence of said new haplotype of said gene of interest determinable by the method of claim 18.

- 24. A DNA comprising the nucleotide sequence of said new haplotype of said gene of interest discovered by the method of claim 18.
- 25. An isolated DNA comprising a fragment of the nucleotide sequence of said new haplotype of said gene of interest determinable by the method of claim 18, wherein said fragment contains a nucleotide sequence having at least one polymorphic nucleotide.
- 26. A method for determining a new wild-type amino acid sequence of a protein of interest where at least one wild-type amino acid sequence of said protein of interest is known comprising the steps of
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of a gene encoding said protein of interest,
- (b) determining or deducing at least one amino acid sequence of said protein produced by said individual,
- (c) comparing each of said amino acid sequence from said individual to that of each wild-type amino acid sequence, wherein the presence of at least one amino acid difference from each known wild-type amino acid sequence indicates the presence of said?

 new wild-type amino acid sequence and

if said new wild type amino acid sequence is not determined by step (c), repeating.

steps (a), (b) and (c) with a different individual until said new amino acid sequence for said protein of interest is determined.

- 27. The method according to claim 26 wherein at least five individuals are selected.
 - 28. The method according to claim 26 wherein said individual is a human.
- 29. An isolated protein having said new amino acid sequence of said protein of interest determinable by the method of claim 26.

- 30. An method for determining a haplotype of a gene of interest for an individual comprising:
- (a) determining a nucleotide sequence of at least a portion of an allele of said gene of interest in regions of said gene containing all polymorphic nucleotides constituting the haplotype in a sample from said individual,
- (b) comparing the nucleotide sequence, or the polymorphic nucleotides, to at least two haplotypes of said gene in the sample, and
- (c) determining the haplotype of said allele of said gene of interest from said sample.
 - 31. The method according to claim 30 wherein said individual is a human.
- 22. A method for determining a wild-type amino acid sequence for a protein of the interest for an individual comprising:
- (a) determining or deducing at least one amino acid sequence of said protein of interest from a sample from said individual, and
- (b) comparing the amino acid sequence obtained to at least two known wild-type antimo acid sequences, thereby determining the amino acid sequence present in the individual.
 - 33. The method according to claim 32 wherein said individual is a human.
- 34. A method for determining a new polymorphism of a gene of interest where at least one wild-type nucleotide sequence of said gene of interest is known comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates a inheritance of functional alleles of the gene of interest.
- (b) determining a nucleotide sequence of said gene, or a fragment thereof, unatleast one allele of said individual,
- (c) comparing each nucleotide sequence from said individual to that of each wildtype nucleotide sequence, wherein the presence of at least one nucleotide sequence

)

Attorney Docket No. 5371.16.US01

different from each known wild-type nucleotide sequence indicates the presence of said new polymorphism, and

if said new polymorphism is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new polymorphism is determined.

- 35. The method according to claim 34 wherein at least five individuals are selected.
 - 36: The method according to claim 34 wherein said individual is a human.
- 37. The method according to claim 34 wherein said gene having the new polymorphism encodes a protein having at least one amino acid difference in its deduced amino acid sequence from a protein encoded by said at least one wild-type-medeotide sequence.
- 38. An isolated protein encoded by said gene having a new polymorphism determinable by the method of claim 37.
- 39. An isolated DNA comprising the nucleotide sequence of said gene having the new polymorphism determinable by the method of claim 34.
- 40. A DNA comprising the nucleotide sequence of said gene having the new polymorphism discovered by the method of claim 34.
- 41. A method for determining a combination of a haplotype for a first gene of interest and at least one polymorphism in a second gene of interest comprising.
- (a) determining the haplotype of an alicle of said first gene of interest in an individual.
- (b) determining the nucleotide sequence of each polymorphism of an allele of the second gene of interest in the same individual, and

(c) identifying a combination of the haplotype of said first gene and the polymorphism of the second gene for the same individual.

}

- 42. The method according to claim 41 wherein said at least one polymorphism determines a haplotype for said second gene of interest.
- 43. The method according to claim 41 wherein said combination indicates a condition or a susceptibility to a condition.
- 44. An antibody capable of either binding to either said isolated protein having said new amino noid sequence according to claim 29 or a protein having a known wild-type amino acid sequence; but not both under the same binding conditions.
 - 45. An antibody according to claim 44 bound to a label.
- 46. An immunoassay capable of distinguishing between a protein having one wild-type amino acid sequence and a protein having a variant wild-type amino acid sequence comprising:
- (a) contacting the antibody according to claim: 44 with a sample containing at least one of said proteins, and
- (b) detecting the presence or absence of binding between said autibody and said protein.
- 47. A method for determining whether to administer a composition to an individual for a particular use comprising:
- (a) determining the nucleotide sequence of at least one polymorphism of a gene of interest, and
- (b) reporting a result indicating the appropriateness of administering the composition to the individual for the particular use,

wherein the presence of at least one polymorphic form of the gene of interest determines the need for or provides a different response to the composition for a particular use from at least one other polymorphic form of the gene of interest.

- 48. The method according to claim 47 wherein said at least one polymorphism defines a haplotype.
- 49. The method according to claim 47 wherein said composition is a pharmaceutical.
- 50. A method for determining a trait, condition or susceptibility to a condition associated with a gene of interest comprising:
- (a) determining the nucleotide sequence of at least one polymorphism of the gene. of interest, and
- (b) reporting a result indicating the presence of said trait, condition or susceptibility to the condition,

wherein the presence of at least one polymorphic form of the gene of interest determines the trait, condition or susceptibility for the condition from at least one other polymorphic form of the gene of interest.

- 51. The method according to claim 47 wherein said at least one polynomial defines a haplotype.
- 52. An oligonucleatide, or its complement, capable of recognizing a polymorphism in a gene of interest by hybridizing to one polymorphic form of said gene to the same hybridizing conditions.
- 53. A panel of oligonucleotides according to claim 52 wherein the panel comprises at least one oligonucleotide for each polymorphism constituting a haplotype for said gone of interest.
- 54. A probe chip for determining the presence or absence of a particular nucleotide at a particular polymorphism determined by the method of claim 34 in a desired gone or fragment thereof, comprising:
 - (a) a solid phase and

(b) a plurality of oligonucleotide probes, wherein the probes are immobilized on the solid phase, wherein the probes comprise at least "n" groups of oligonucleotide probes, wherein each unique probe within the group of oligonucleotide probes is complementary to said desired gene or fragment thereof, and contains a nucleotide complementary to said particular polymorphism in said desired polynucleotide at a different position within said unique probe, and

wherein "n" is an integer greater than 0

- 55. The probe chip according to claim 54, further comprising an additional group of complementary probes which are complementary to said group of probes and capable of hybridizing to a complementary strand of said desired gene or fragment thereof.
- 56. A method for determining a new polymorphism in a gene comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene,
 - (b) obtaining a sample of genomic DNA from said at least one individually
- (c) determining a nucleotide sequence of at least a fragment of at least one aliele of such gone around individual,
- (d) comparing each nucleotide sequence from said at least a fragment said allele to that of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least one nucleotide difference from each known wild-type nucleotide sequence indicates the presence of said new polymorphism, and

if said new polymorphism is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said-new polymorphism is determined.

- \$77. The method according to claim 56 wherein at least five individuals are. . . selected.
 - 58. The method according to claim 56 wherein said individual is a human.

- 59. The method according to claim 56 wherein said gene having the new polymorphism encodes a protein having at least one amino acid difference in its deduced amino acid sequence from a protein encoded by said at least one wild-type nucleotide sequence.
- 60. An isolated protein encoded by said gene having a new polymorphism determinable by the method of claim 59.
- 61. An isolated DNA comprising the nucleotide sequence of said gene having the new polymorphism determinable by the method of claim 56.
- 62. A DNA comprising the nucleotide sequence of said gene having the news in polymorphism discovered by the method of claim 56.
- 63 A method for determining a new haplotype of a gene of interest wherein said haplotype comprises at least two single nucleotide polymorphisms which identify an affect that occurs in the total normal nopulation, comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates—inheritance of functional alleles of the gene,
 - (b) obtaining a sample of genomic DNA from at least one said individual,
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said gene in said individual,
- (d) comparing each nucleotide sequence from at least a fragment of said allele to that of artiers one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new haplotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new haplotype is determined.

- 64. A method according to claim 63 wherein the allele occurs in at least 10% of the total normal population.
- 65. A method according to claim 63 wherein the allele occurs in at least 10% of the normal Caucasian population.
- 66. A method according to claim 63 wherein the allele occurs in at least 10% of the normal Black/African American population.
- 67. Atmethod according to claim 63 wherein the allele occurs in at least 10% of \$1.000 the normal Asian population.
- 68. A method according to claim 63, 64, 65, 66 or 67 wherein said new haplotype encodes a protein having at least one amino acid difference in its deduced amino acid sequence from a protein encoded by at least one wild type nucleotide sequence.
- 69. An isolated protein encoded by said new haplotype determinable by the method of claim 63, 64, 65, 66 or 67.
- 70. An isolated DNA comprising the nucleotide sequence of said new haplotype of said gene of interest determinable by the method of claim 63, 64, 65, 66 or 67.
- 71. An isolated DNA comprising a fragment of the nucleotide sequence of said.

 new haplotype of said gene of interest determinable the method of claim 63, 64, 65, 66 or

 67, wherein said fragment contains a nucleotide sequence having at least two
 polymorphic nucleotides.

- 72. A method for determining a new haplotype of a gene of interest wherein said haplotype comprises at least two single nucleotide polymorphisms which identify an allele which is associated with an increased risk of identified disease in the total normal population, comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene.
 - (b) obtaining a sample of genomic DNA from at least one said individual,
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said gene in said individual,
- (d) comparing each nucleotide sequence from at least a fragment of said affector that of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new haplotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c), with a different individual until said new haplotype is determined.

- 73. A method according to claim 72 wherein the allele occurs in at least 10% of the total normal population.
- 74. A method according to claim 72 wherein the allele occurs in at least 10% of the normal Caucasian population.
- 75. A method according to claim 72 wherein the allele occurs in at least 10% of the normal Black/African American population.
 - 76. A method according to claim 72 wherein the allele occurs in at least 10% of

the aromai Asian population.

- 77. A method according to claim 72, 73, 74, 75 or 76 wherein said new haplotype encodes a protein having at least one amino acid difference in its deduced amino acid sequence from a protein encoded by at least one wild-type nucleotide sequence.
- 78. An isolated protein encoded by said new haplotype determinable by the method of claim 72, 73, 74, 75 or 76.
- 79. An isolated DNA comprising the nucleotide sequence of said new haplotype of said gene of interest determinable by the method of claim 72, 73, 74, 73 or 76.
- 80. An isolated DNA comprising a fragment of the nucleotide sequence of said new haplotype of said gene of interest determinable the method of claim 72, 73, 74, 75 or 76, wherein said fragment contains a nucleotide sequence having at least two polymorphic nucleotides.
- 81. A method for determining a plurality of haplotypes of a gene of interest wherein said haplotypes collectively define the alleles of said gene in a normal population, and wherein each said allele comprises at least two single nucleotide polymorphisms, comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene;
 - (b) obtaining a sample of genomic DNA from at least one said individual.
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said gene in said individual,
 - (d) comparing each nucleotide sequence from at least a fragment of said allele to

Received from < 71 > at 6/24/03 4:02:32 PM [Eastern Daylight Time]

)

Attorney Docket No. 5371.16.US01

that of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new haplotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new haplotype is determined.

- 82. A method according to claim 81 wherein the population is the normal Caucasian population.
- 83. A method according to claim 81 wherein the population is the normal Black/African American population.
- 84. A method according to claim 81 wherein the population is the normal Asian population.
- 85. A method fundetermining a set of haptotypes of defined affects from contiguous genes within the same region of a chromosome in the total population.
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene,
 - (b) obtaining a sample of genomic DNA from at least one said individual,
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said gene in said individual,
- (d) comparing each nucleotide sequence from at least a fragment of said allele to that of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new haplotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c)

with a different individual until said new haplotype is determined.

- 86. A method according to claim 85 wherein the population is the normal Caucasian population.
- 87. A method according to claim 85 wherein the population is the normal Black/African American population.
- 88. A method according to claim 85 wherein the population is the normal Asian population.
- 89. A method for determining a set of haplotypes of defined alleles from noncontiguous genes from different regions of a chromosome in the total population, comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inferitance of functional alleles of the gene.
 - (b) obtaining a sample of genomic DNA from at least one said individual;
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said gene in said individual,
- (d) comparing each nucleotide sequence from at least a fragment of said allele to that of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new fragiotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new haplotype is determined.

90. A method according to claim 89 wherein the population is the normal.

Caucasian population.

- 91. A method according to claim 89 wherein the population is the normal Black/African American population.
- 92. A method according to claim 89 wherein the population is the normal Asian population.
- 93. A method for determining a set of haplotypes of defined alleles from noncontiguous genes from different chromosomes in the total population, said method comprising the steps of:
- (a) selecting at least one individual having a genetic history which indicates inheritance of functional alleles of the gene,
 - (b) obtaining a sample of genomic DNA from at least one said individual,
- (c) determining a nucleotide sequence of at least a fragment of at least one allele of said-generic said individual.
- (d) comparing each nucleotide sequence from at least a fragment of said allele tothat of at least one wild-type nucleotide sequence of said gene or fragment, wherein the presence of at least two nucleotide differences from each known wild-type nucleotide sequence indicates the presence of said new haplotype, and

if said new haplotype is not determined by step (c), repeating steps (a), (b) and (c) with a different individual until said new haplotype is determined.

- . 94. Atmethod according to claim 89 wherein the population is the normal. Caucasian population.
 - 95. A method according to claim 89 wherein the population is the normal. .

JUN 24 2003 15:58 FR 71

71 TO 12689#449215054# P.20

Attorney Docket No. 5371.16.US01

Black/African American population.

96. A method according to claim 89 wherein the population is the normal Asian population.